DT14 R6c'd PCT/PT0 1 8 OCT 2004

Approved for use through 3/31/2007. OMB 0651-0020

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

		ANSMITTAL LETTER TO	ATTTORNEY'S DOCKET NUMBER 9896-000053/NP							
•	DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371			U.S. APPLICATION (1007) 17 Thrown, 590 \$7 (6) R 1.5)						
	_ :			TO DILITO						
	P	TIONAL APPLICATION NO. CT/CA2003/000566	INTERNATIONAL FILING DATE 16 April 2003 (16.04.2003)	PRIORITY DATE CLAIMED 16 April 2002 (16.04.2002)						
TIT	LE OF	INVENTION TUBERCULOSIS VAC	CCINES INCLUDING RECOMBINANT ASE AND/OR GLUTAMINE SYNTHE	T BCG STRAINS EXPRESSING ALANINE						
DEHYDROGENASE, SERINE DEHYDRATASE AND/OR GLUTAMINE SYNTHETASE APPLICANT(S) FOR DO/EO/US LIU, Jun; CHEN, Jeffrey and ALEXANDER, David										
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:										
1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.										
2.	$\overline{}$	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.								
		· · · · · · · · · · · · · · · · · · ·								
3.	_	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4.	X	The US has been elected (Article 31).								
5.	\mathbf{X}	A copy of the International Application as filed (35 U.S.C. 371(c)(2))								
		a. is attached hereto (required only if not communicated by the International Bureau).								
		b. X has been communicated by the International Bureau.								
		c. is not required, as the application was filed in the United States Receiving Office (RO/US).								
6.		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).								
		a. is attached hereto.								
	_	b. has been previously submitted under 35 U.S.C. 154(d)(4).								
7.		Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))								
		a. are attached hereto (required only if not communicated by the International Bureau).								
		b. have been communicated by the International Bureau.								
		c. have not been made; however, the time limit for making such amendments has NOT expired.								
	_	d. have not been made and will not be made.								
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).								
9.	Ш	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
10.		An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).								
	Items 11 to 20 below concern document(s) or information included:									
11.		An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.							
12.		An assignment document for recording	ng. A separate cover sheet in compliance wit	th 37 CFR 3.28 and 3.31 is included.						
	\mathbf{X}	A preliminary amendment.								
14.	X	An Application Data Sheet under 37 CFR 1.76.								
15.		A substitute specification.								
16.		A power of attorney and/or change of	address letter.							
17.		A computer-readable form of the sequence	uence listing in accordance with PCT Rule 1	3ter.2 and 37 CFR 1.821- 1.825.						
18.	X	A second copy of the published International Application under 35 U.S.C. 154(d)(4).								
19.		A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).								
20.	\mathbf{X}	Other items or information:	card, Express Mail Transmittal (Label EV 53198826	5 US), Copy of Form PCT/ISA/210 (7 pages)						

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

PTO-1390 (Rev. 10-2004)
Approved for use through 3/31/2007, OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION N	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/CA 2003/000566			ATTORNEY'S DOCKET NUMBER					
][10/511718 PCT/CA2003/000566			9896-000053/NP					
21. X The following	g fees are submitted:	CALCULATIONS	PTO USE ONLY						
BASIC NATIONAL FEE (CFR 1.492(a)(1)–(5)):									
nor international search	reliminary examination fee (3 h fee (37 CFR 1.445(a)(2)) pa ch Report not prepared by the								
International preliminar USPTO but Internation	ry examination fee (37 CFR 1 al Search Report prepared b								
International preliminar but international search	ry examination fee (37 CFR 1 h fee (37 CFR 1.445(a)(2)) pa								
International preliminar but all claims did not sa	ry examination fee (37 CFR 1 atisfy provisions of PCT Artic								
and all claims satisfied	ry examination fee (37 CFR 1 provisions of PCT Article 33 ENTER APPROPRIAT	\$ 1,110.00							
	for furnishing the oath or decled priority date (37 CFR 1.49	\$ 0.00							
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	·				
Total claims	28 - 20 =	8	X \$18.00	\$ 144.00					
Independent claims	12 -3=	9	X \$88.00	\$ 792.00					
MULTIPLE DEPENDE	NT CLAIM(S) (if applicable)		+ \$300.00	\$ 0.00					
		\$ 1,712.00							
Applicant claims by 1/2.	small entity status. See 37 C	\$ 0.00							
	,	\$ 2,046.00							
Processing fee of \$130 claimed priority date (3	0.00 for furnishing the English 37 CFR 1.492(f)).	\$ 0.00							
		\$ 2,046.00							
	enclosed assignment (37 CFF er sheet (37 CFR 3.28, 3.31).	\$ 0.00							
,		\$ 2,046.0)						
		Amount to be refunded:	\$						
		Amount to be charged:	\$						
a. A check in the amount of \$ to cover the above fees is enclosed.									
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.									
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No.08-0750-A duplicate copy of this sheet is enclosed.									
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must/be filed and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO:									
Joseph M. Lafata Harness, Dickey & Pierce, P.L.C. SIGNATURE									
P.O. Box 828	y oc rioloc, F.L.C.	Lasala /							
Bloomfield Hill	ls. MI 48303	Lafata /							
United States of									
United States of America 37,166 REGISTRATION NUMBER									

DT01 Rec'd PCT/PT0 1 8 OCT 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Express Mail No.: EV 531 988 265 US

Date of Deposit: 18 October 2004

International

Application No.:

Not yet assigned - 371 of PCT/CA2003/000566

International

Filing Date:

16 April 2003

Applicant:

LIU, Jun, et al.

Title:

TUBERCULOSIS VACCINES INCLUDING RECOMBINANT

BCG STRAINS EXPRESSING ALANINE DEHYDROGENASE,

SERINE DEHYDRATASE AND/OR GLUTAMINE __

SYNTHETASE

Attorney Docket:

9896-000053/NP

Mail Stop PCT Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313-1450

EXPRESS MAIL TRANSMITTAL

The following papers are being deposited with the United States Postal Service Express Mail Post Office To Addressee on 18 October 2004 and addressed for receipt by the United States Patent and Trademark Office:

- 1. Express Mail Transmittal (Label No. EV 531 988 265 US);
- PCT Transmittal Letter to the US Designated/Elected Office Concerning a Filing Under 35 USC 371 (2 pages, in duplicate);
- Application Data Sheet (2 pages);
- 4. Copy of Published International Application WO 2003/089462 (78 pages);
- 5. Copy of International Search Report (7 pages);
- 6. Preliminary Amendment (7 pages); and
- 7. Return Postcard.

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600